AMENDMENTS TO THE CLAIMS

This listing of claims will replace all prior versions and listings of claims in the application:

LISTING OF CLAIMS:

Optical device (D) for transforming the propagation mode of Claim (original): optical signals, comprising at least a first mode converter, (3) associated with a multimode fibre (4), the first converter (3) being supplied with signals that are propagated in accordance with a first guided mode and delivering those signals in the multimode fibre (4) partly in the first guided mode and partly in a second guided mode of a higher order than the first, characterized in that the multimode fibre (4) comprises at least first passive filtering means (R, R1) which are arranged to convert the first guided mode into at least one dissipative cladding mode in order to prevent or limit the propagation of the signals in this first guided mode while at the same time authorising the propagation of the signals in the second guided mode in the multimode fibre (4).

Device according to claim 1, characterized in that Claim 2 (currently amended): wherein the first filtering means (R, R1) are produced in the multimode fibre (4) in the form of a first long period grating, the period (P, P1) being selected as a function of the dissipative cladding mode.

Device according to either-claim 1-or claim 2, Claim 3 (currently amended): characterized in that wherein the multimode fibre (4) comprises at least second passive filtering Preliminary Amendment Based On WO 2005/036223 A1

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means (R2) arranged to convert a third guided mode, of a higher order than the first, into at least one dissipative cladding mode in order to prevent or limit the propagation of the signals in this third guided mode while at the same time authorising the propagation of the signals in the second guided mode in the multimode fibre (4).

Claim 4 (currently amended): Device according to claim 3, characterized in that wherein the second conversion means (R2) are produced in the multimode fibre (4) in the form of a second long period grating, the period (P2) being selected as a function of the dissipative cladding mode.

Claim 5 (currently amended): Device according to any one of claims claim 2 to 4, eharacterized in that wherein the multimode fibre (4) comprises a cladding (7) having an outside radius whose value at the first (R, R1) and/or second (R2) filtering means is lower than the value on each side of those first and/or second filtering means.

Claim 6 (currently amended): Device according to any one of claims claim 2 to 5. characterized in that wherein the first (R, R1) and/or second (R2) long period grating(s) exhibit(s) a variation in the period in order to ensure broadband filtering.

Claim 7 (currently amended): Device according to any one of claims claim 2 to 6. characterized in that wherein the first (R1) and/or second (R2) long period grating(s) exhibit(s)

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an index modulation profile over a selected length in order to provide spectral filtering of

substantially rectangular shape.

Claim 8 (currently amended): Device according to any one of claims claim 1 to 7,

characterized in that wherein it comprises, downstream of the first (R, R1) and/or second (R2)

filtering means, a second mode converter (6) arranged to convert into the first mode the second

mode of the signals that are propagated in the multimode fibre (4) which supplies it.

Claim 9 (currently amended):

Device according to claim 8, characterized in that

wherein the first (R, R1) and/or second (R2) filtering means are placed in the vicinity of the

second mode converter (6).

Claim 10 (currently amended):

Device according to claim 9, characterized in that

wherein the first (R, R1) and/or second (R2) filtering means are placed upstream of the second

mode converter (6) at a distance of a few tens of centimeters to a few centimetres.

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